

165
166

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1-4

DESIGNED BY T. B. B. B.

COUNTER FLOW HEAT EXCHANGERS CONVENTIONAL VS ENHANCED DESIGNS

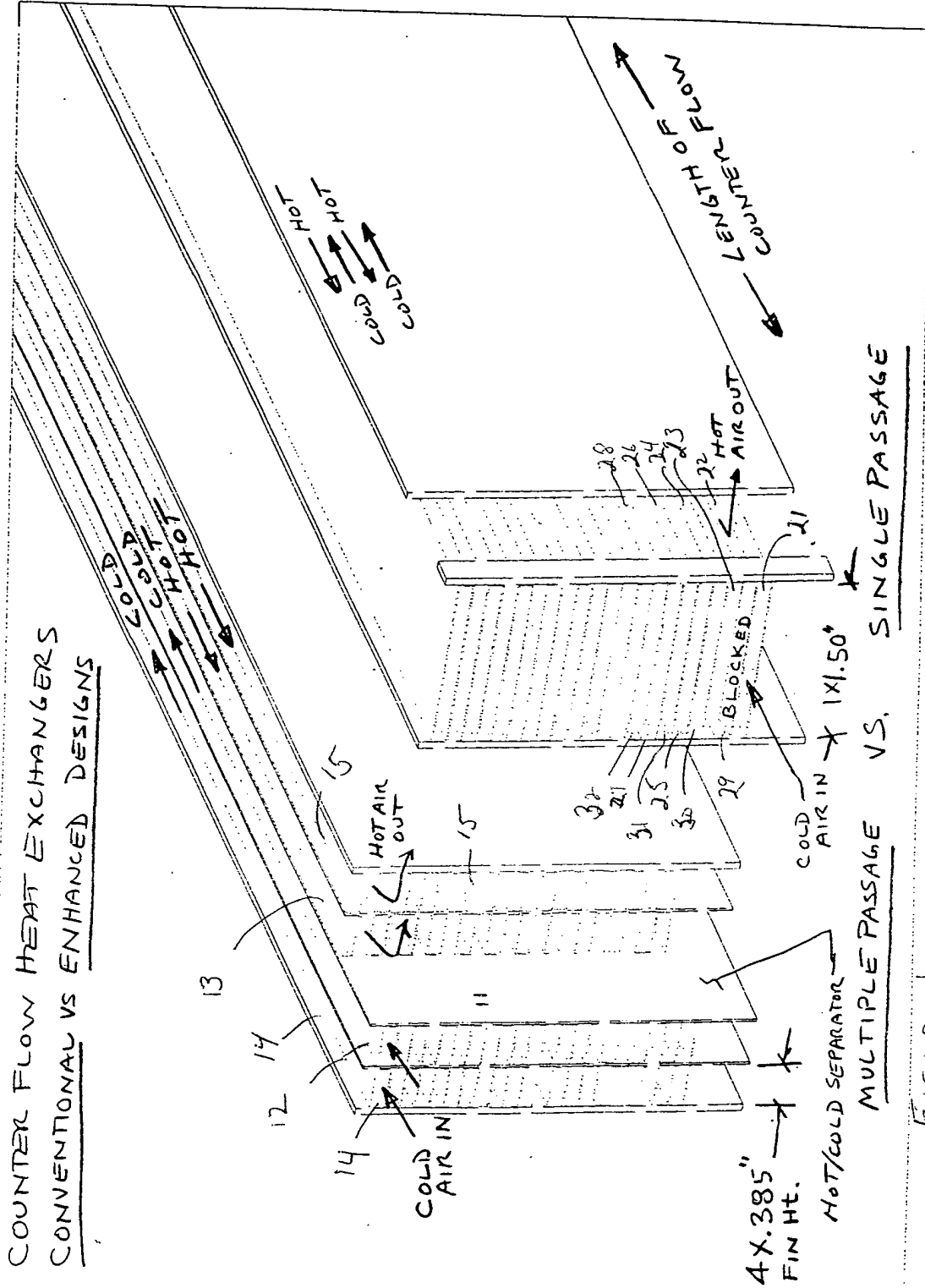
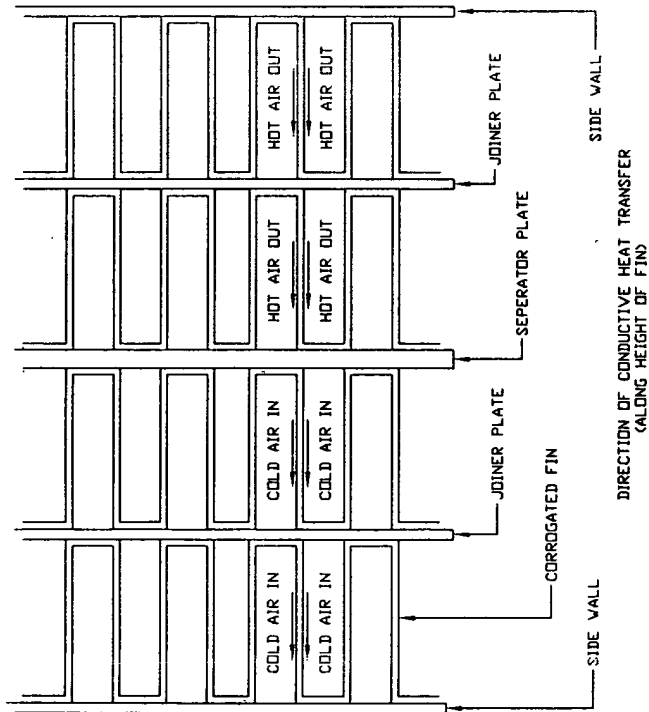


Figure 1

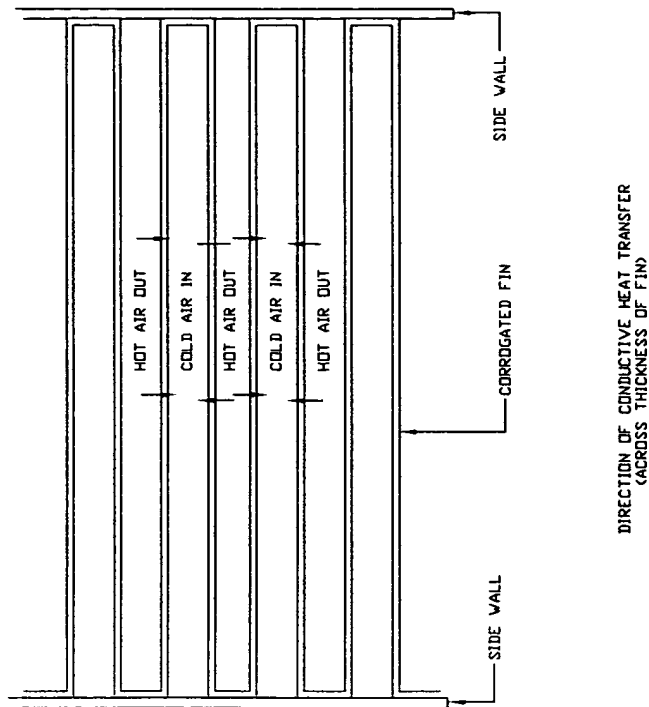
Figure 2

Figure 3



CROSS SECTION OF PRIOR ART, MULTI-STAGE (4 STAGE) COUNTERFLOW HEAT EXCHANGER

Figure 4



CROSS SECTION OF PRESENT INVENTION, SINGLE-STAGE COUNTERFLOW HEAT EXCHANGER

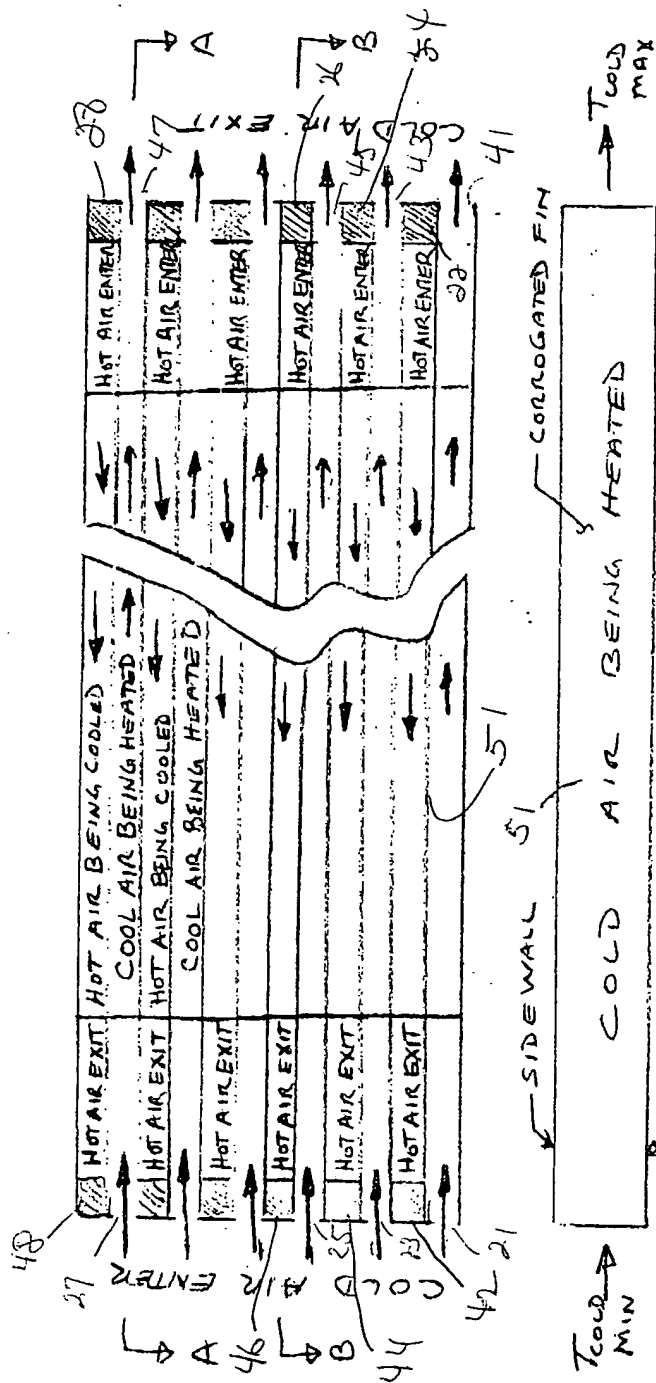
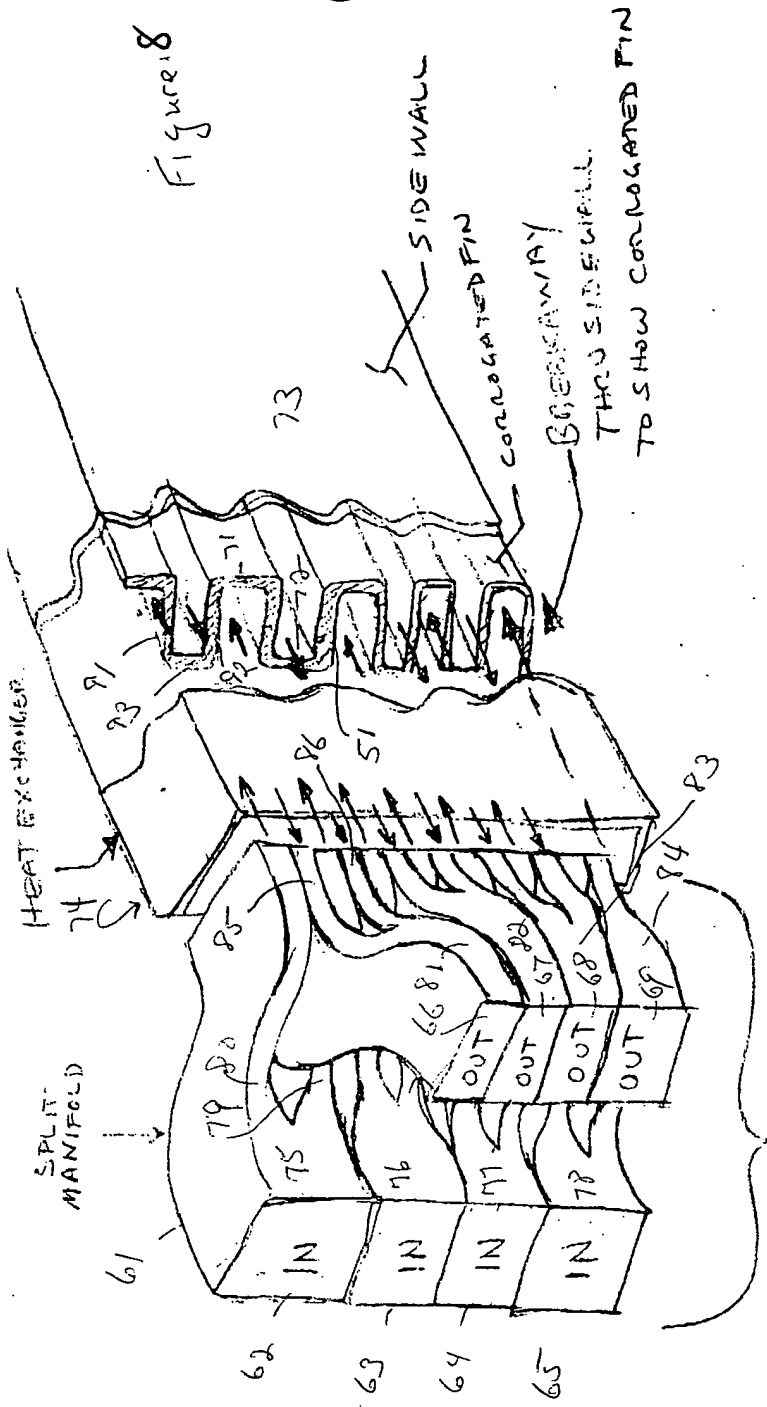


Figure 7

CONDENSER SPLIT



SPLIT MANIFOLD EXAMPLE -
 USED TO SEPARATE COUNTER-FLOW
 WITHOUT USING PLUGS & SIDEWALL CORRUGATIONS
 (THIS METHOD ELIMINATES REDIRECTING AIRFLOW
 WITHIN CORRUGATED FIN LENGTH)

M. DUNN